LIST OF SEQUENCES

- (1) GENERAL INFORMATION:
 - (i) APPLICANT
 - (A) NAME: A.D.B.E.A.

ASSOCIATION POUR LE DEVELOPPEMENT DE LA BIOTHERAPIE EXPERIMENTALE ET APPLIQUEE

HOPITAL SAINT VINCENT DE PAUL

(B) STREET: 74-82 AVENUE DENFERT ROCHEREAU

- (C) CITY: PARIS
- (E) COUNTRY: FRANCE
 - (F) POST CODE: 75674
 - (ii) TITLE OF THE INVENTION: PROTEINS HAVING LECTINIC PROPERTIES AND THEIR BIOLOGICAL APPLICATIONS
 - (iii) NUMBER OF SEQUENCES: 6
 - (iv) COMPUTER READABLE FORM:
- (A) MEDIUM TYPE: Floppy disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: \PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
- (2) INFORMATION FOR SEQ.\ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 1831 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTISENSE: NO
 - (ix) FEATURE:
- (A) NAME/KEY: CDS

1

(B) LOCATION: 62..1469

(xi) SEQUENCE DESCRIPTION SEQ ID NO: 1

GAATTCCGGC GAGTGCGCGC TCCTCCTCGC CCGCCGCTAG GTCCATCCCG GCCCAGCCAC													
C ATG TCC ATC CAC TTC AGC TCC CCG GTA TTC ACC TCG CGC TCA GCC Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala 1 5 15	106												
GCC TTC TCG GGC CGC GGC GCC CAG GTG CGC CTG AGC TCC GCT CGC CCC Ala Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro 20 25 30	154												
GGC GGC CTT GGC AGC AGC AGC CTC TAC GGC CTC GGC GCC TCG CGG CCG Gly Gly Leu Gly Ser Ser Ser Leu Tyr Gly Leu Gly Ala Ser Arg Pro 35 40 45	202												
CGC GTG GCC GTG CGC TCT GCC TAT GGG GGC CCG GTG GGC GCC GGC ATC Arg Val Ala Val Arg Ser Ala Tyr Gly Gly Pro Val Gly Ala Gly Ile 50 55 60	250												
CGC GAG GTC ACC ATT AAC CAG AGC CTG CTG GCC CCG CTG CGG CTG GGC Arg Glu Val Thr Ile Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Gly 65 70 75	298												
GCC GAC CCC TTC TCC CAG CGG GTG CGC CAG GAG GAG AGC GAG CAG ATC Ala Asp Pro Phe Ser Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile 80 85 90 95	346												
AAG ACC CTC AAC AAC AAG TTT GCC TCC TTC ATC GAC AAG GTG CGG TTT Lys Thr Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe 100 109 110	394												
CTG GAG CAG CAG AAC AAG CTG CTG GAG ACC AAG TGG ACG CTG CAG Leu Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln 115 120 125	442												
GAG CAG AAG TCG GCC AAG AGC AGC CGC CTC CCA GAC ATC TTT GAG GCC Glu Gln Lys Ser Ala Lys Ser Arg Leu Pro Asp Ile Phe Glu Ala 130 135	490												
CAG ATT GCT GGC CTT CGG GGT CAG CTT GAG GCA ATG CAG GTG GAT GGG Gln Ile Ala Gly Leu Arg Gly Gln Leu Glu Ala Met Gln Val Asp Gly 145 150 155	538												
GGC CGC CTG GAG CAG GGG CTG CGG ACG ATG CAG GAT GTG GTG GAG GAC Gly Arg Leu Glu Gln Gly Leu Arg Thr Met Gln Asp Val Val Glu Asp 160 165 170	586												
TTC AAG AAT AAG TAC GAA GAT GAA ATT AAC CGC CGC ACA GCT GCT GAG Phe Lys Asn Lys Tyr Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu 180 185	634												
AAT GAG TTT GTG GTC CTG AAG AAG GAT GTG GAT GCT GCC TAC ATG AGC Asn Glu Phe Val Val Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser 195 200 205	682												

AAG GTG Lys Val	GAG CTC Glu Leu 210	GAG (GCC A	ГЛВ	GTG Val 215	GAT Asp	GCC Ala	CTG Leu	TAA nea	GAT Asp 220	GAG Glu	ATC Ile	AAC Aan	730
TTC CTC Phe Leu 225	AGG ACC	CTC	Asn (GAG Glu 230	ACG	GAG Glu	TTG Leu	ACA Thr	GAG Glu 235	CTT Leu	CAG Gln	TCC Ser	CAG Gln	778
ATC TCC Ile Ser 240	GAC ACA	Ser	GTG (Val V 245	GTG Val	CTG Leu	TCC Ser	ATG Met	GAC Asp 250	AAC Asn	AGT Ser	CGC Arg	TCC Ser	CTG Leu 255	826
GAC CTG	GAC GGC	: ATC	ATC (GCT	dag .	GTC	AAG	GCG	CAG	TAT	GAG	GAG	ATG	874
Asp Leu	Asp Gl	y Ile 260	Ile	Ala	dlu	Val	Lys 265	Ala	Gln	Tyr	Glu	Glu 270	Het	
GCC AAA Ala Lys	TGC AG Cys Se	r Arg			1		Ala							922
GAG ACC						ı								970
ACC CGG Thr Arg 305	Asn Gl		Ser			١ .				Gln				1018
GCT GAG Ala Glu 320														1066
ATT GCC Ile Ala							1							1114
GCC AAG Ala Lys		ı Glu												1162
ATG GCA Met Ala								•						1210
GCC CTG Ala Leu 385			Ile .							Leu				1258
GAG AGC Glu Ser 400														1306
ATG AAT Met Asn														1354

CTC (GGG Gly	GGA Gly	ACC Thr 435	ATG Met	GGC Gly	AGC Ser	TAA neA	GCC Ala 440	CTG Leu	AGC Ser	TTC Phe	TCC Ser	AGC Ser 445	AGT Ser	GCG Ala		1402
GGT (CCT Pro	GGG Gly 450	CTC Leu	CTG Leu	AAG Lys	GCT Ala	TAT Tyr 455	TCC	ATC Ile	CGG Arg	ACC Thr	GCA Ala 460	TCC Ser	GCC Ala	AGT Ser		1450
CGC A							GTCG	с фт	CCCA	CCAC	TCC	ACTC	CTC				1496
CAGC	CACC	CAC C	CCAC	AATC	AC A	GCCA'	TTGC	C GA	GGCT	GAGG	AGT	GTGG	GGA	GCTG	GCGC	CTC	1556
AAGG	ATGC	CTC (GTGC	CAAG	CA G	GAGG.	AGCT	g da	AGCC	GCCC	TGC	AGCG	GGC	CAAG	CAGG	GAT	1616
ATGG	CACG	GC F	GCT	CGT	A G	TACCA	AGGAA	, cife	CATGA	AGCG	TGĀA	GCTC	GC (CCTGC	ACA'	rc	1676
GAGAT	rcgc	CA C	CTAC	CCGC	AA GO	CTGCT	rggac	ec	CGAGO	GAGA	GCCC	GTTC	GC 1	rggao	ATG	GA	1736
GTGG	GAGC	CG 1	GAA?	ratci	rc To	GTGAT	rgaa1	TC	ACTO	GTG	GCAC	TAGO	CAG :	rggco	GTG	GC	1796
ATTG	GGCT	AG C	CCT	CGGG	GG A	ACCA?	rggg	C AG	CAA								1831

(3) INFORMATION FOR SEQ. ID\ NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 405 base pairs
- (B) TYPE: nucleotide
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: CDS
- (B) LOCATION: 1..405

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2

ATG TCC ATC CAC TTC AGC TCC CCG GTA TTC ACC TCG CCC TCA GCC GCC

Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala Ala

1 5 10 15

TTC TCG GGC CGC GGC GCC CAG GTG CGC CTG AGC TCC GCT CGC CCC GGC

Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro Gly

20 25 30

							1									
GGC	CTT	GGC	AGC	AGC	AGC	CTC	TAC	GGC	CTC	GGC	GCC	TCG	CGG	CCG	CGC	144
Gly	Leu	Gly	Ser	Ser	Ser	Leu	Tyr	Gly	Leu	Gly	Ala	Ser	Arg	Pro	Arg	
		35					40					45				
ama	GCC	C.T.C	ccc	тст	ccc	тат	GGG	GGC	CCG	GTG	GGC	GCC	GGC	ATC	CGC	192
GTG	Ala	Unl	750	SOF	Ala	TUT	GIV	Glv	Pro	Val	Glv	Ala	Gly	Ile	Arg	
vai	.50	Val	Ary	261	VIG	55	1	01,			60		•		_	
							1									
GAG	GTC	ACC	ATT	AAC	CAG	AGC	CIC	CTG	GCC	CCG	CTG	CGG	CTG	GGC	GCC	240
Glu	Val	Thr	Ile	Asn	Gln	Ser	Leu	Leu	Ala	Pro	Leu	Arg	Leu	Gly	Ala	
65					70			\		75					80	
								L				a	C2.C	N TO C	A A C	288
GAC	ccc	TTC	TCC	CAG	CGG	GTG	CGC	CAG	GAG	GAG	AGC	GAG	CAG	TIO	Tue	200
Asp	Pro	Phe	Ser		Arg	Val	Arg	din	90	Giu	ser	GIU	GIII	95	בעם	
				85				\	90					, ,		
	CTC	* * * *	N N C	3 3 C	ጥጥጥ	GCC	TCC	TAC	ATC	GAC	AAG	GTG	CGG	TTT	CTG	336
ACC.	Leu	AAC	AAC	Lve	Pho	Ala	Ser	Phe	Ile	Asp	Lys	Val	Arg	Phe	Leu	
Int	Leu	ABII	100	Lys	1110	****	•••	105		•	•		110			
			100					1								
GAG	CAG	CAG	AAC	AAG	CTG	CTG	GAG	ACC	\AAG	TGG	ACG	CTG	CTG	CAG	GAG	384
Glu	Gln	Gln	Asn	Lys	Leu	Leu	Glu	Thr	FAB	Trp	Thr	Leu	Leu	Gln	Glu	
		115		-			120		-			125				
									- 1							
CAG	AAG	TCG	GCC	. ממ	. AGC	NGC	,		- /							405
	Lys								\							
	130			J -		135			/							
									\	\						

- (4) INFORMATION FOR SEQ. ID NO $\frac{1}{3}$:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 469 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3

Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala Ala 1 5 10 15

Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro Gly 20 25

Gly Leu Gly Ser Ser Ser Leu Tyr Gly Leu Gly Ala Ser Arg Pro Arg 35 Val Ala Val Arg Ser Ala Tyr Gly Gly Pro Val Gly Ala Gly Ile Arg Glu Val Thr Ile Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Gly Ala Asp Pro Phe Ser Gln Arg |Val Arg Gln Glu Glu Ser Glu Gln Ile Lys 85 Thr Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu 105 Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu 120 Gln Lys Ser Ala Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln 130 135 Ile Ala Gly Leu Arg Gly Gln Leu Glu Ala Met Gln Val Asp Gly Gly 155 150 Arg Leu Glu Gln Gly Leu Arg Thr Met Gln Asp Val Val Glu Asp Phe 170 165 Lys Asn Lys Tyr Glu Asp Glu Ile\Asn Arg Arg Thr Ala Ala Glu Asn \185 180 Glu Phe Val Val Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys 200 195 Val Glu Leu Glu Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe 220 Leu Arg Thr Leu Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile 235 240 230 225 Ser Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp Leu Asp Gly Ile Ile Ala Glu Val Lys Ala Gln\Tyr Glu Glu Het Ala 270 260 265 Lys Cys Ser Arg Ala Glu Ala Glu Ala Trp Tyr Gl\u03e7 Thr Lys Phe Glu 275 Thr Leu Gln Ala Gln Ala Gly Lys His Gly Asp Asp Leu Arg Asn Thr 300 295 Arg Asn Glu Ile Ser Glu Met Asn Arg Ala Ile Gln Arg Leu Gln Ala 320 315 310 305

Glu Ile Asp Asn Ile Lys Asn Gln Arg Ala Lys Leu Glu Ala Ala Ile 325 330 335

Ala Glu Ala Glu Glu Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Ala
340 345 350

Lys Gln Glu Glu Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met 355 \$60 365

Ala Arg Gln Leu Arg Glu Tyr Gln Glu Leu Met Ser Val Lys Leu Ala 370 375 380

Leu Asp Ile Glu Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu 385 390 395 400

Ser Arg Leu Ala Gly Asp Gly Val Gly Ala Ala Asn Ile Ser Val Met
405 410 415

Asn Ser-Thr Gly Gly Ser Ser Ser Gly Gly Gly Ile Gly Leu Thr Leu
420 425 430

Gly Gly Thr Met Gly Ser Asn Ala Leu Ser Phe Ser Ser Ser Ala Gly
435
440
445

Pro Gly-Leu Leu Lys Ala Tyr Ser lle Arg Thr Ala Ser Ala Ser Arg
450 455 460

Arg Ser Thr Arg Asp 465

- (5) INFORMATION FOR SEQ. ID NO: 4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 135 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4

Met Ser Ile His Phe Ser Ser Pro Val Phe Thr Ser Arg Ser Ala Ala 1 5 10 15

Phe Ser Gly Arg Gly Ala Gln Val Arg Leu Ser Ser Ala Arg Pro Gly
20 25 30

Gly Leu Gly Ser Ser Ser Leu Tyr Gly Leu Gly Ala Ser Arg Pro Arg

Val Ala Val Arg Ser Ala Tyr Gly Gly Pro Val Gly Ala Gly Ile Arg
50 55 60

Glu Val Thr Ile Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Gly Ala
65 70 75 . 80

Asp Pro Phe Ser Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile Lys
85 90 95

Thr Leu Asn Asn Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu 100

Glu Gln Gln Asn Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu
115 120 125

Gln Lys Ser Ala Lys Ser Ser 130

- (6) INFORMATION FOR SEQ. ID NO: 5:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTISENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5

Gly Leu Gly Ala Ser Arg Pro Arg Val Ala Val Arg Ser Ala Tyr 1 5 10 15

- (7) INFORMATION FOR SEQ. ID NO: 6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTISENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Asp Pro Phe Ser Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile 5 15